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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/666,509
		Filing Date	09/19/2003
		First Named Inventor	Sondur Lakshmpathi
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission		Attorney Docket Number	111027-134390

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
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<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	SCHWABE, WILLIAMSON & WYATT, P.C.
Signature	
Date	12/04/2003

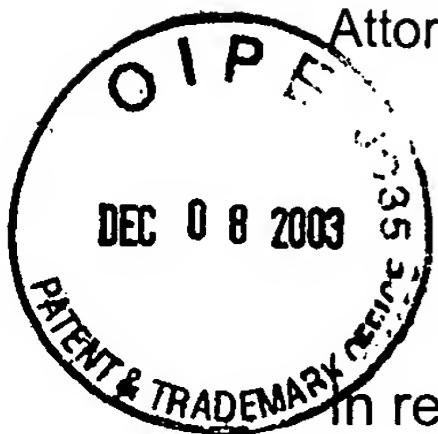
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Sondur Lakshmpathi

Application No.: 10/666,509

Filed: 09/19/2003

For: WIRELESS SIGNAL
PROCESSING METHODS AND
APPARATUSES INCLUDING
DIRECTIONS OF ARRIVAL
ESTIMATION

Examiner: Not Yet Assigned

Art Group: Not Yet Assigned

Confirmation No.: Not Yet Assigned

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Typed or Printed: Heather L. Adamson

Signature: Date: 12/04/2003

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. § 1.97(g), the submission of this Information Disclosure Statement (IDS) is not to be construed as a representation that a search has been made, and, pursuant to 37 C.F.R. § 1.97(h), the submission of this IDS is not to be construed as an admission that the information cited in this IDS is material to patentability.

This IDS is being submitted under one or more of the following sections of 37 C.F.R. § 1.97 (as indicated by an "X" to the left of the appropriate paragraph(s)):

X 37 C.F.R. § 1.97(b). Filed:

- (1) Within three months of a National Application other than a CPA;
- (2) Within three months of entry into National Stage;
- (3) Before mailing of a first Office Action on the merits; or
- (4) Before mailing of a first Office Action after filing an RCE.

 37 C.F.R. § 1.97(c). Filed before the mailing of a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution.

And, ONE of the following:

(1) One statement from 37 C.F.R. § 1.97(e);

 (e)(1) The person signing below certifies that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

 (e)(2) The person signing below certifies that no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing below after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 1.56(c) more than three months prior to filing this IDS.

OR

(2) The fee set forth in 37 C.F.R. § 1.17(p).

 A check in the amount of \$180.00 is enclosed.

 37 C.F.R. § 1.97(d). Filed on or before payment of the issue fee.

And, BOTH of the following:

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 (e)(1) The person signing below certifies that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

 (e)(2) The person signing below certifies that no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing below after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 1.56(c) more than three months prior to filing this IDS.

AND

(2) The fee set forth in 37 C.F.R. § 1.17(p).

 A check in the amount of \$180.00 is enclosed.

Accompanying this IDS is a list of references and a copy of each reference listed therein, EXCEPT references pursuant to one or more of the following sections of 37 C.F.R. § 1.98 (as indicated by an "X" to the left of the appropriate paragraph(s)):

37 C.F.R. § 1.98(c) as being cumulative (marked with an "*" on the Form PTO-1449).

37 C.F.R. § 1.98(d) as being previously submitted in parent application /, , to which the present application claims priority under 35 U.S.C. § 120.

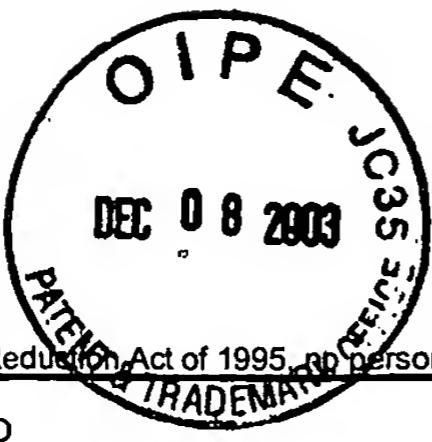
The Commissioner is hereby authorized to charge shortages or credit overpayments to Deposit Account No. 500393. A Fee Transmittal is enclosed in duplicate for fee processing purposes.

Respectfully submitted,
SCHWABE, WILLIAMSON & WYATT, P.C.

Dated: 10/4/03


Aloysius T.C. AuYeung
Registration No. 35,432

Pacwest Center, Suites 1600-1900
1211 SW Fifth Avenue
Portland, Oregon 97204
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PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	10/666,509
Filing Date	09/19/2003
First Named Inventor	Sondur Lakshmpathi
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

Attorney Docket Number

111027-134390

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	ERMOLAEV, et al., "Fast Algorithm for Minimum-Norm Direction-of-Arrival Estimation," IEEE Transactions on Signal Processing, Vol. 42, No. 9, Sept. 1994, pp. 2389-2394	
	2	ROY, et al., "ESPRIT - A Subspace Rotation Approach to Estimation of Parameters of Cisoids in Noise," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-34, No. 5, Oct. 1986, pp. 1340-1342	
	3	SCHMIDT, "Multiple Emitter Location and Signal Parameter Estimation," IEEE Transactions on Antennas and Propagation, Vol. AP-34, No. 3, Mar. 1986, pp. 276-280	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
 This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
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